

Drought Task Force Summary

7 January 2013

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South Dakota State Climatologist

SDSU Extension/AES/ABE

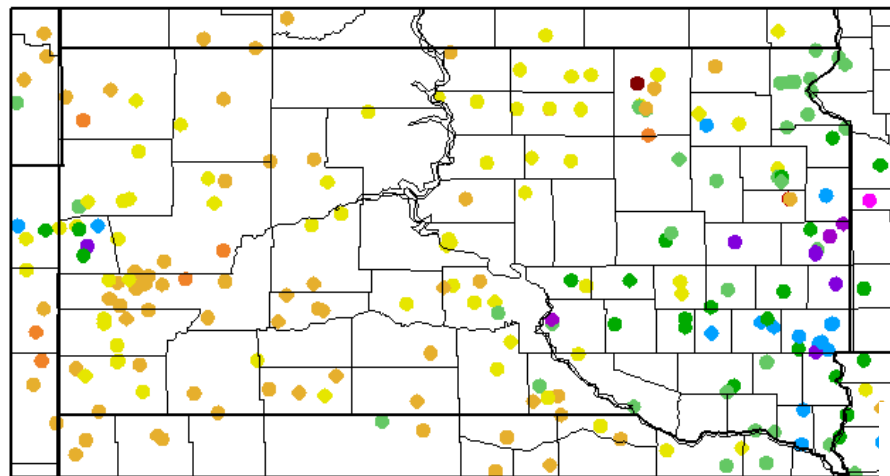


Drought Summary

- Snow statewide helpful (somewhat)
- Additional snow – east - limited recovery
- Little change in longer term deficits
- Spring critical to recovery – no specific indications on spring conditions at this point
- Decent mountain snow pack (early season – dry background conditions)



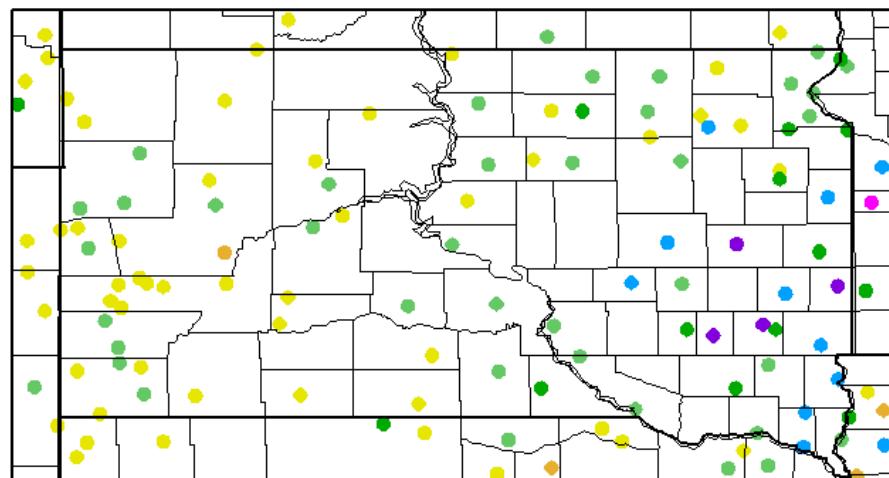
Precipitation (in) 12/6/2012 – 1/4/2013



Generated 1/5/2013 at HPRCC using provisional data.

Regional Climate C

Departure from Normal Precipitation (in) 12/6/2012 – 1/4/2013



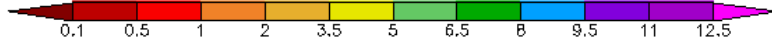
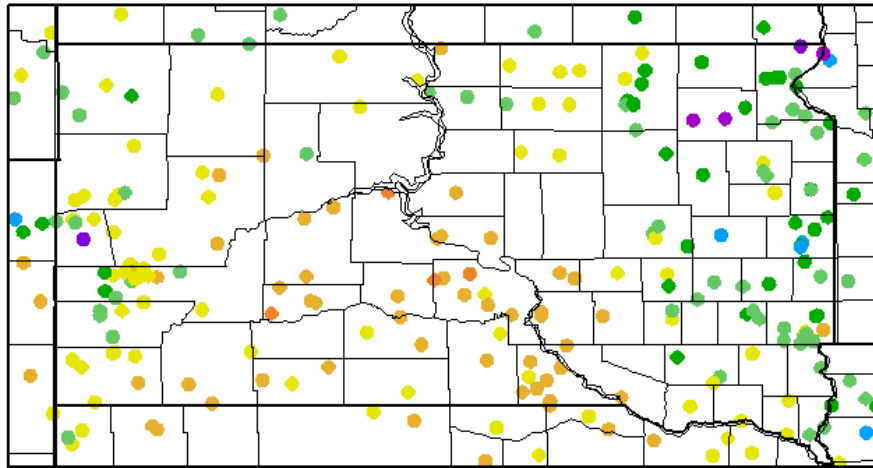
Generated 1/5/2013 at HPRCC using provisional data.

Regional Climate Centers



<http://www.hprcc.unl.edu/maps/current/>

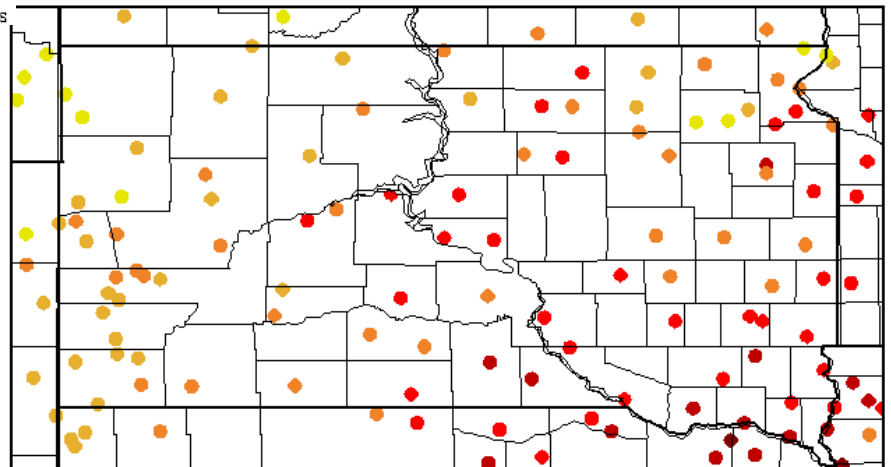
Precipitation (in) 7/5/2012 – 1/4/2013



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Regional Climate Centers

Departure from Normal Precipitation (in) 7/5/2012 – 1/4/2013



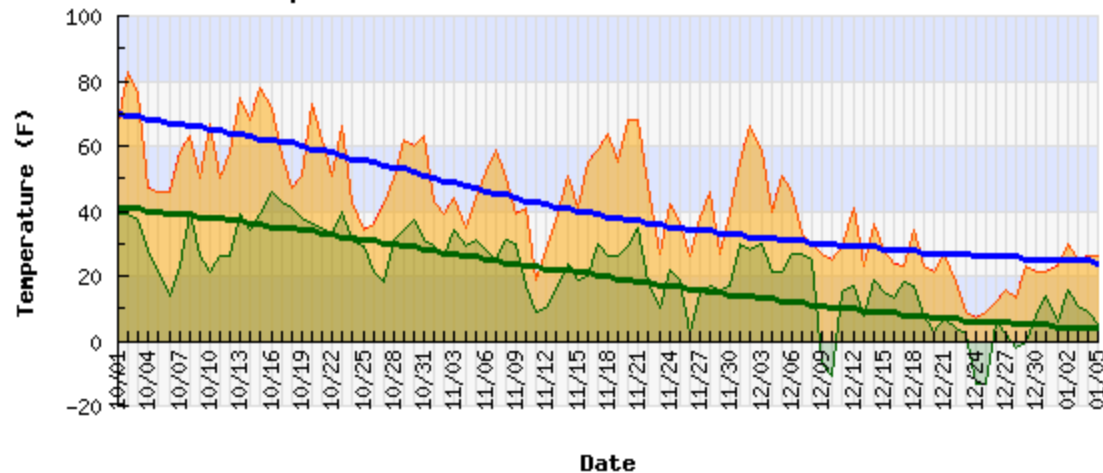
Generated 1/5/2013 at HPRCC using provisional data.

Regional Climate Centers



<http://www.hprcc.unl.edu/maps/current/>

Temperature for HIGHMORE (10/01/2012 - 01/05/2013)

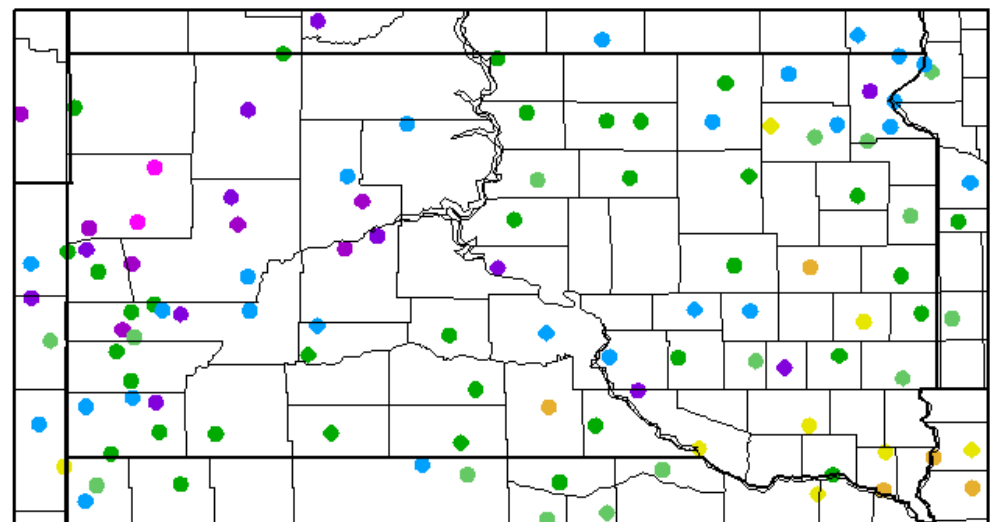


SD State Climate Office
<http://climate.sdstate.edu>

Max Min Normal Max Normal Min

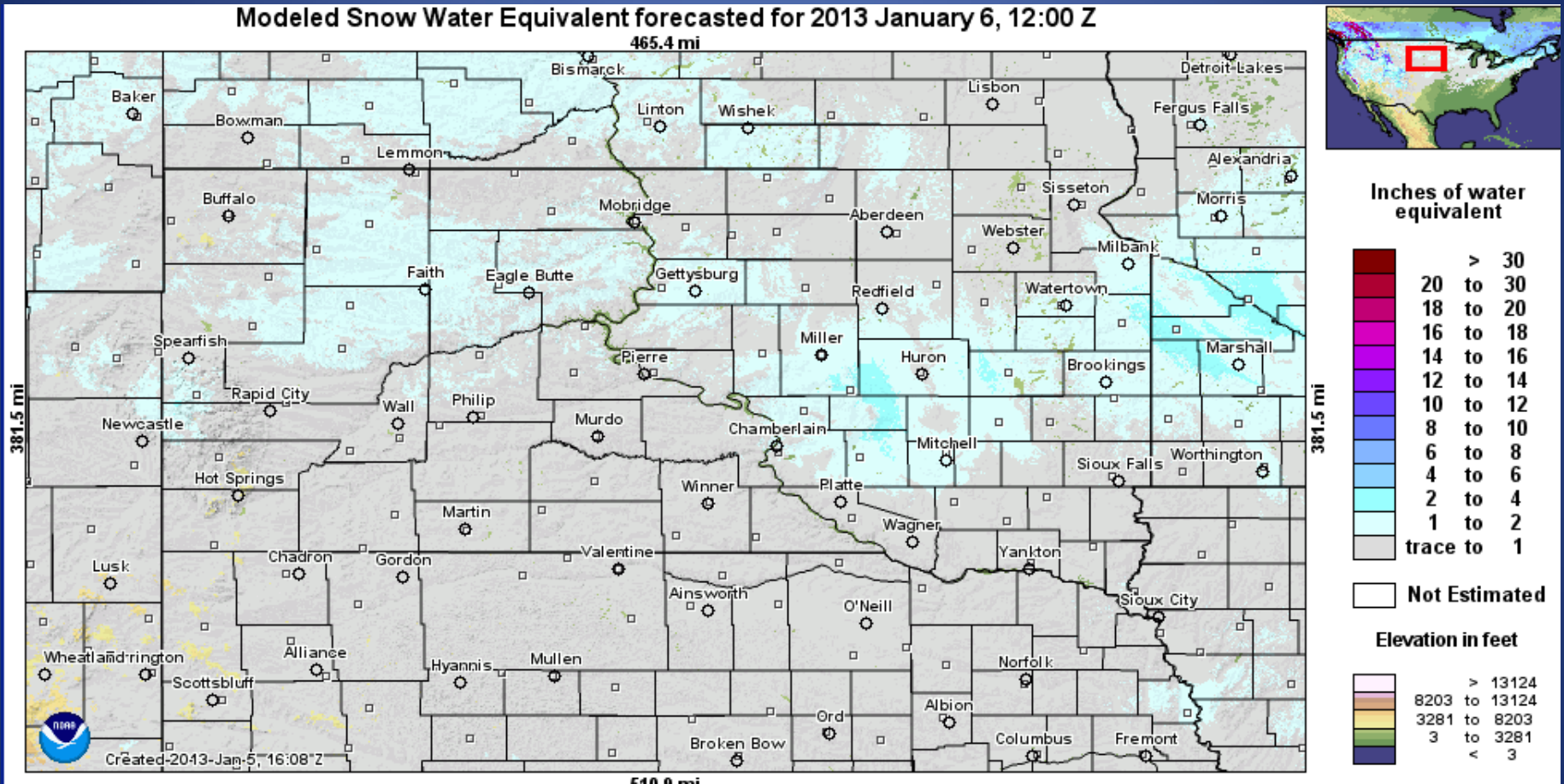
<http://climate.sdstate.edu/awdn/archive/graphs.php?txtfrom=06/01/2012&txtto=07/28/2012&station=BES¶meterz=temp>

Normal Temperature (F)
 12/6/2012 - 1/4/2013



Snow Water Equivalent

Modeled Snow Water Equivalent forecasted for 2013 January 6, 12:00 Z



U.S. Drought Monitor

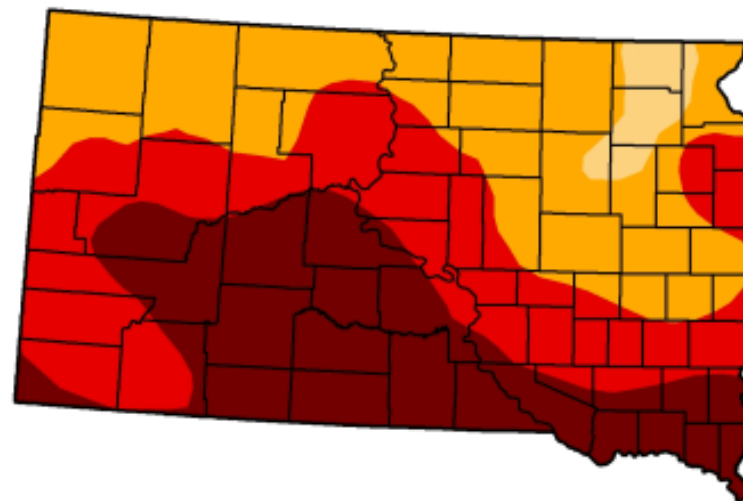
South Dakota

January 1, 2013

Valid 7 a.m. EST

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	0.00	100.00	100.00	96.95	63.17	30.68
Last Week (12/25/2012 map)	0.00	100.00	100.00	96.95	63.17	30.68
3 Months Ago (10/02/2012 map)	0.00	100.00	100.00	82.30	50.48	27.00
Start of Calendar Year (01/01/2013 map)	0.00	100.00	100.00	96.95	63.17	30.68
Start of Water Year (09/25/2012 map)	0.00	100.00	100.00	74.69	50.53	6.72
One Year Ago (12/27/2011 map)	48.14	51.86	13.86	2.11	0.00	0.00



Intensity:

D0 Abnormally Dry	D3 Drought - Extreme
D1 Drought - Moderate	D4 Drought - Exceptional
D2 Drought - Severe	

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

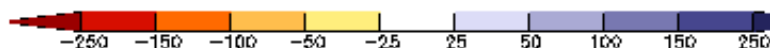
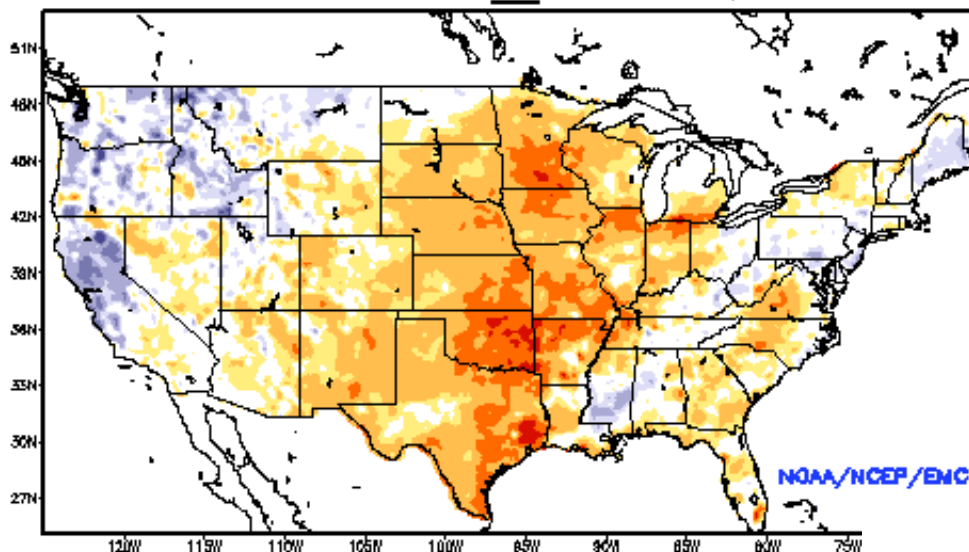
<http://droughtmonitor.unl.edu>



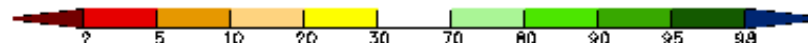
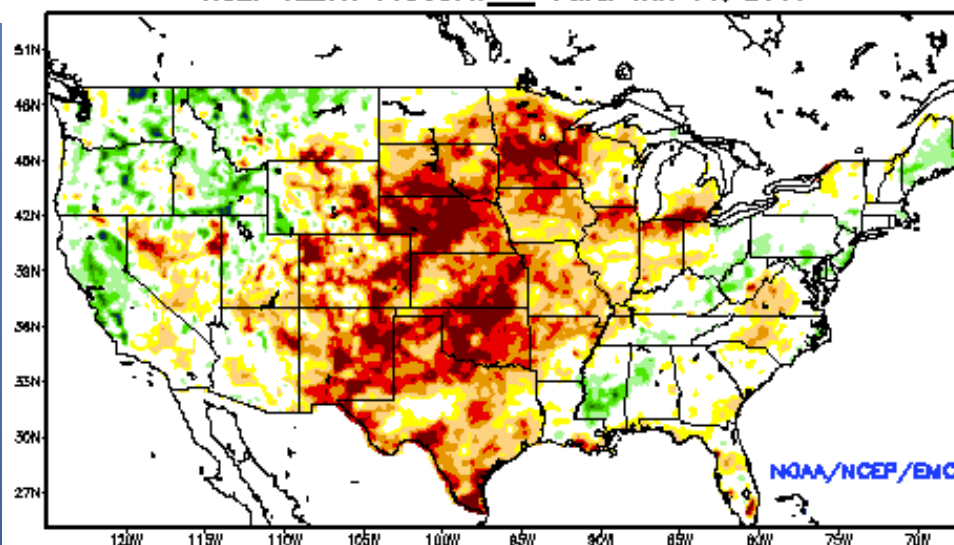
Released Thursday, January 3, 2013
Richard Heim, National Climatic Data Center, NOAA



Ensemble-Mean - Current Total Column Soil Moisture Anomaly (mm)
NCEP NLDAS Products Valid: JAN 01, 2013



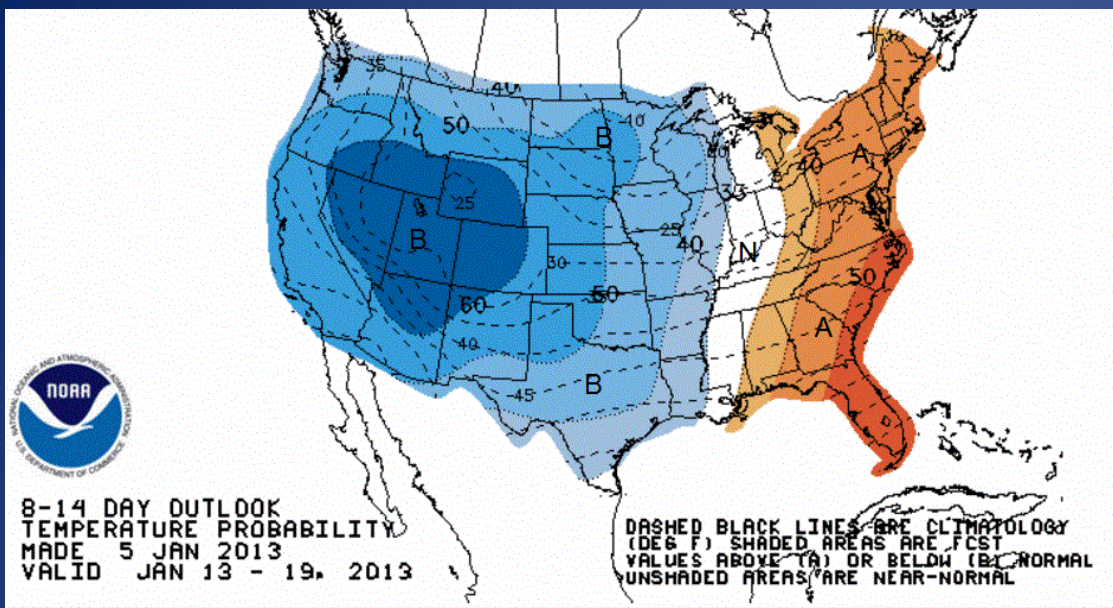
Ensemble-Mean - Current Total Column Soil Moisture Percentile
NCEP NLDAS Products Valid: JAN 01, 2013



8-14 day

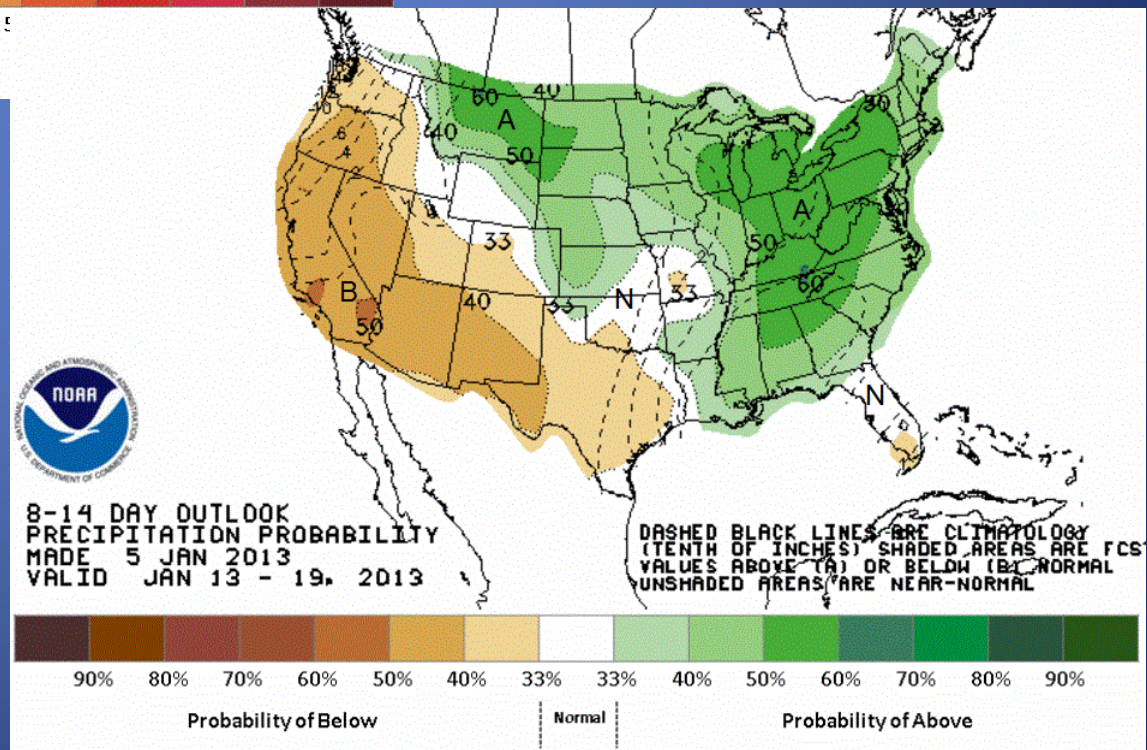
Temperature

Precipitation

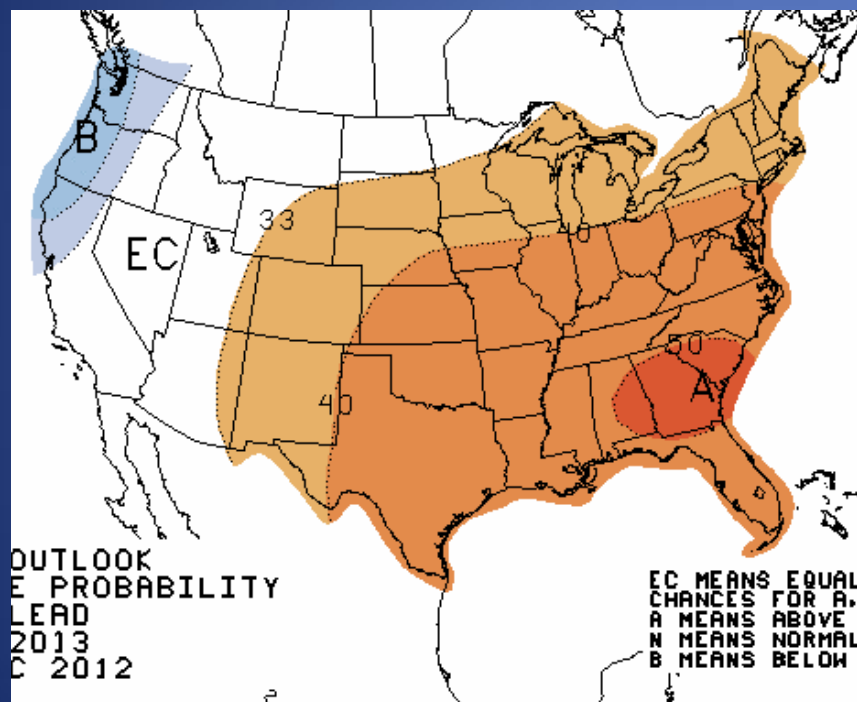


<http://www.cpc.ncep.noaa.gov>

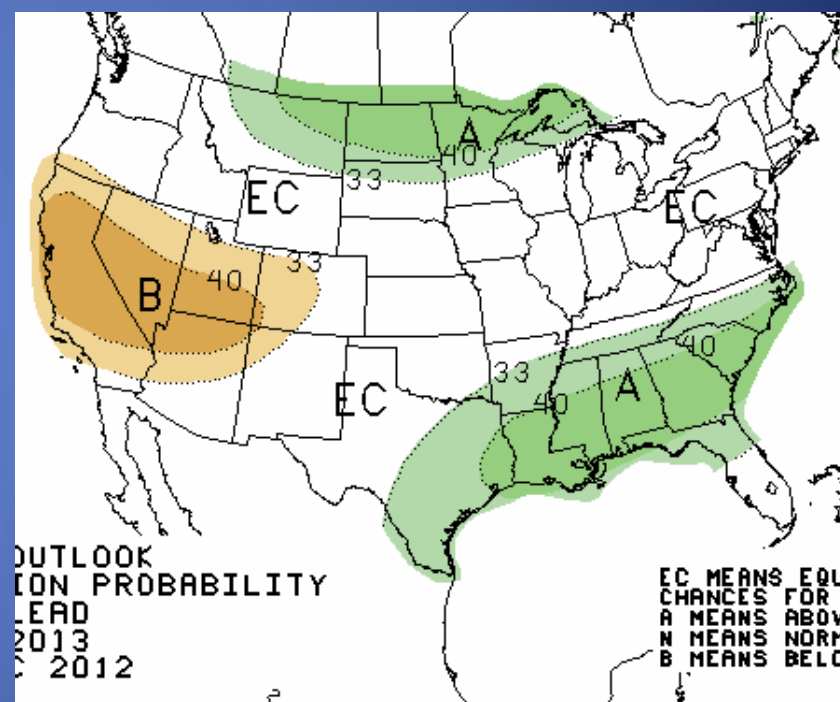
Issued daily



January Temperature and Precipitation Probabilities

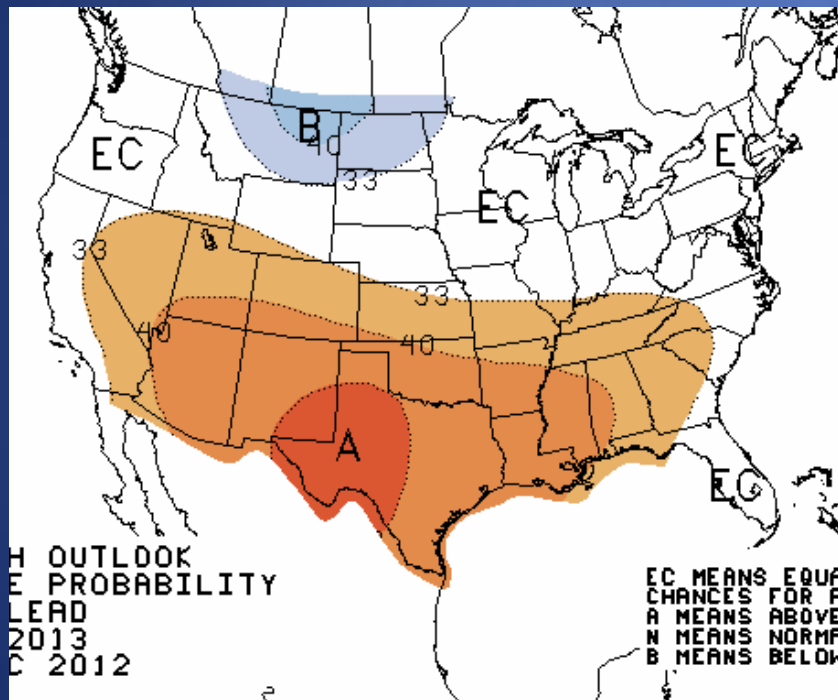


Temperature

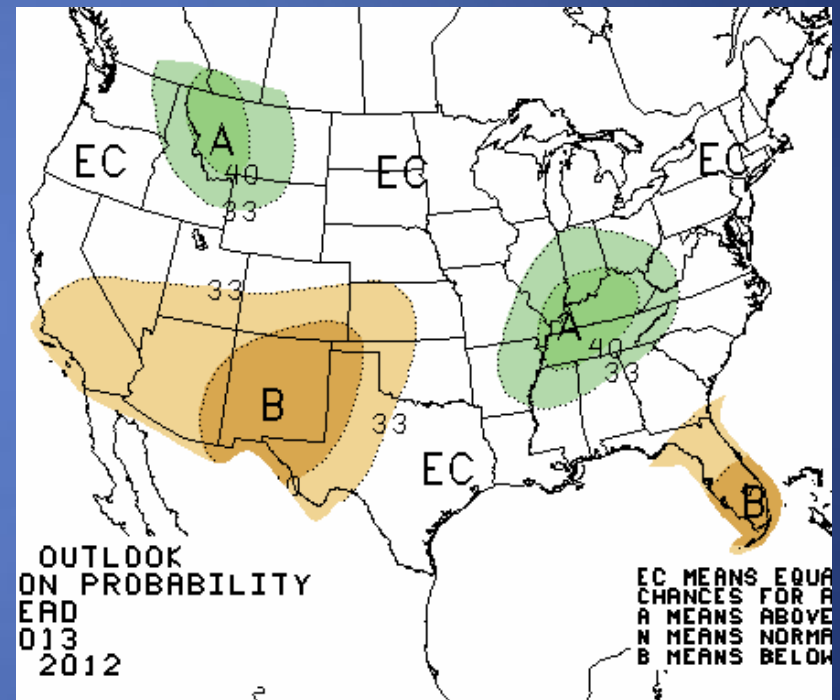


Precipitation

3 Month Temperature and Precipitation Probabilities (December - February)

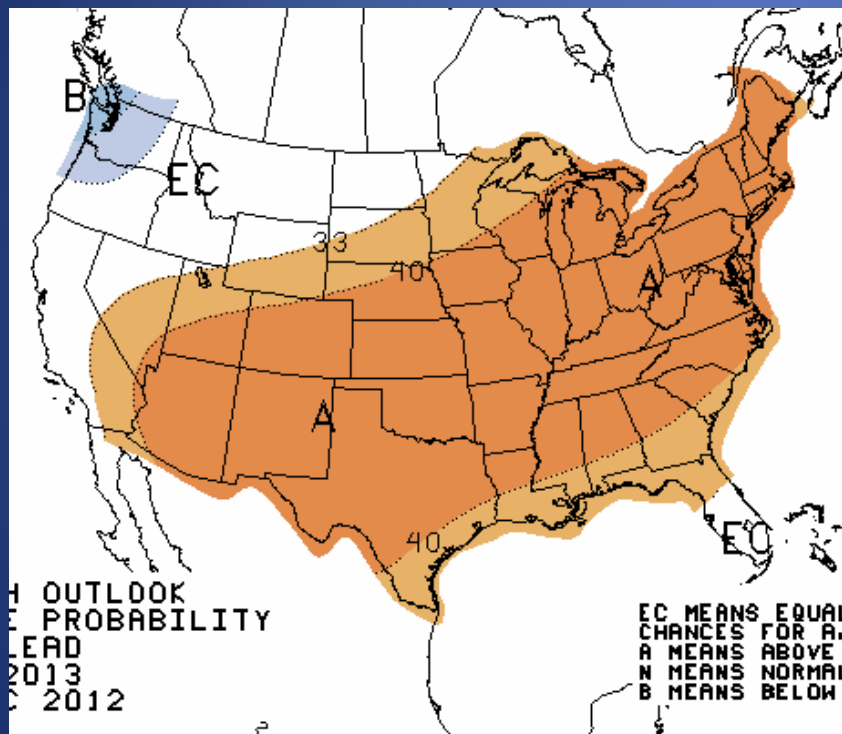


Temperature

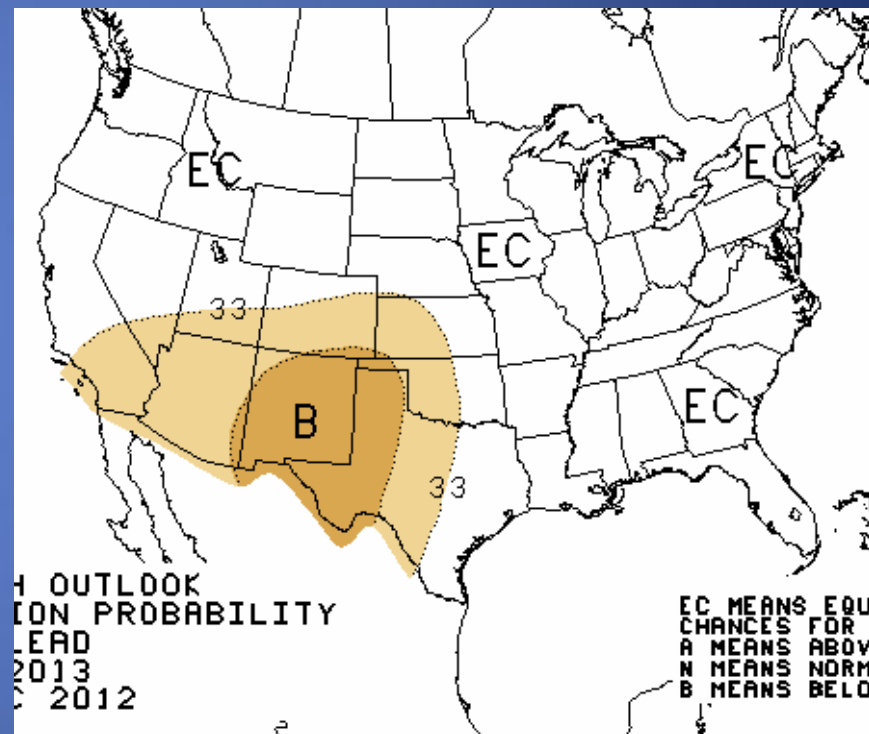


Precipitation

3 Month Temperature and Precipitation Probabilities (March - May)



Temperature



Precipitation

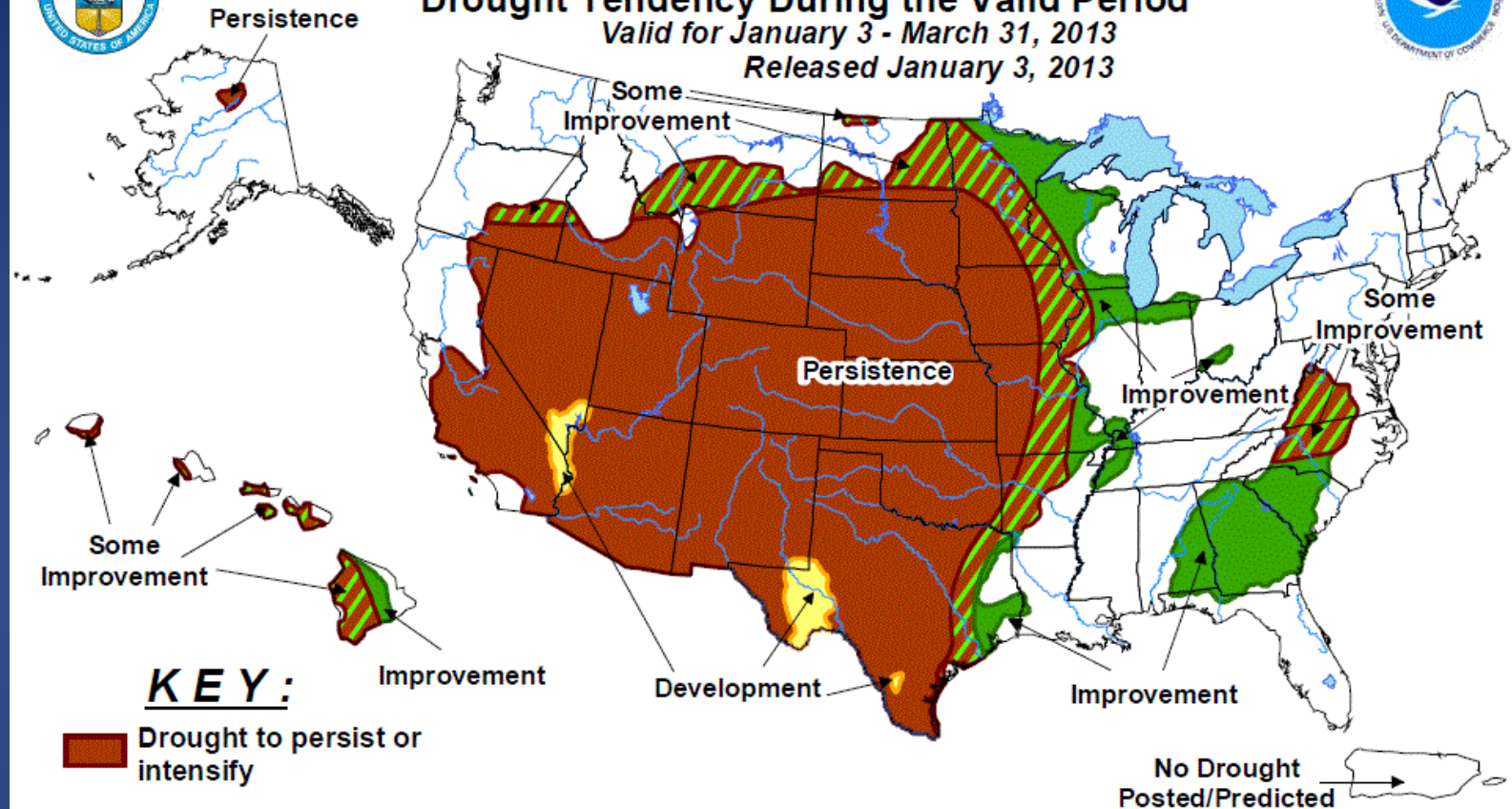
http://www.cpc.ncep.noaa.gov/products/predictions/long_range/seasonal.php?lead=1



U.S. Seasonal Drought Outlook

Drought Tendency During the Valid Period

Valid for January 3 - March 31, 2013
Released January 3, 2013



KEY:

- Drought to persist or intensify
- Drought ongoing, some improvement
- Drought likely to improve, impacts ease
- Drought development likely

Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Short-term events -- such as individual storms -- cannot be accurately forecast more than a few days in advance. Use caution for applications -- such as crops -- that can be affected by such events. "Ongoing" drought areas are approximated from the Drought Monitor (D1 to D4 intensity). For weekly drought updates, see the latest U.S. Drought Monitor. NOTE: the green improvement areas imply at least a 1-category improvement in the Drought Monitor intensity levels, but do not necessarily imply drought elimination.

South Dakota, Precipitation, January-December

